



Docket No. 34648-00415USPT  
P09713

9/a  
MDJ  
1-24-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ritzen et al.

Serial No.: 09/189,099

Filed: November 9, 1998

For: CELLULAR COMMUNICATIONS NETWORK AND METHOD FOR  
DYNAMICALLY CHANGING THE SIZE OF A CELL DUE TO SPEECH QUALITY

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Examiner: Y. Woldetatos

Group Art Unit: 2749

Box Non-fee Amendment  
Assistant Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on JANUARY 10, 2001.

By: ELLA R. SISCO

Signature: *Ella R. Sisco*

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JAN 18 2001

2600 MAILROOM

Dear Sir:

REPLY TO OFFICE ACTION UNDER 37 C.F.R. § 1.111

Responsive to the final Office Action mailed September 12, 2000, reconsideration and allowance of the present Application is requested in view of the following amendments and remark.

AMENDMENTS

1. (Amended) A method for improving speech quality in a cellular communications network, said method comprising the steps of:

selecting a cell from a plurality of cells forming the cellular communications network;

evaluating a first plurality of mobile reports received from mobile terminals located within a predetermined distance to a border of a non-cosited cell;

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determining, in response to evaluating the first plurality of mobile reports, [an] a speech quality value within a portion of the cell; and

decreasing the portion of the cell when a lower threshold exceeds the speech quality value; or

increasing the portion of the cell when the speech quality value exceeds an upper threshold.

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18. (Amended) A cellular communications network comprising:

a cell;

a first transceiver station located within the cell;

a first plurality of mobile terminals located in a portion of said cell and within a predetermined distance to a border of a non-cosited cell, said portion includes a cell border area or a section of the cell border area; and

a controller for receiving a first plurality of mobile reports, said controller further including:

means for determining an average speech quality value of the portion of the cell in response to receiving the first plurality of mobile reports; and

means for decreasing the portion of the cell when a lower threshold exceeds the average speech quality value; or

means for increasing the portion of the cell when the average speech quality value exceeds an upper threshold.

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